

Claim Amendments

1-60. (canceled)

61. (original) A glass comprising:

a substantially alkali-free aluminoborosilicate glass;

said glass having the composition (in % by weight, based on
oxide):

SiO_2 > 58 - 65

B_2O_3 > 6 - 11.5

Al_2O_3 > 14 - 25

MgO 4 - 8

CaO 0 - 8

SrO 2.6 - < 4

BaO 0 - < 0.5

with $\text{SrO} + \text{BaO}$ > 3

ZnO 0.5 - 2;

said composition of said SiO_2 , said B_2O_3 , said Al_2O_3 , said MgO ,
said CaO , said SrO , said BaO , said $\text{SrO} + \text{BaO}$, and said ZnO being
selected to provide all of (i.), (ii.), (iii.), and (iv.), wherein (i.), (ii.),
(iii.), and (iv.) comprise:

(i.) a coefficient of thermal expansion $\alpha_{20/300}$ of between

$2.8 \times 10^{-6}/K$ and $3.8 \times 10^{-6}/K$;

(ii.) a glass transition temperature, T_g , of more than 713 degrees Celsius to maximize heat resistance of said glass;

(iii.) a temperature at a viscosity of 10^2 dPas of at most 1694 degrees Celsius; and

(iv.) a processing temperature, V_A , at a viscosity of 10^4 dPas of at most 1273 degrees Celsius.

62. (original) The glass according to Claim 61, wherein:
said glass contains from more than 8% by weight to 11.5% by weight of B_2O_3 .

63. (original) The glass according to Claim 62, comprising all of (a.), (b.), (c.), (d.), (e.), (f.), and (g.), wherein (a.), (b.), (c.), (d.), (e.), (f.), and (g.) comprise:

(a.) one of (i.), (ii.), and (iii.):

(i.) more than 18% by weight of Al_2O_3 ;

(ii.) at least 20.5% by weight of Al_2O_3 ; and

(iii.) at least 21% by weight of Al_2O_3 ;

(b.) one of (i.) and (ii.):

(i.) a glass containing additionally (in % by weight):

ZrO_2	0 - 2
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TiO ₂	0 - 2
with ZrO ₂ + TiO ₂	0 - 2
As ₂ O ₃	0 - 1.5
Sb ₂ O ₃	0 - 1.5
SnO ₂	0 - 1.5
CeO ₂	0 - 1.5
Cl ⁻	0 - 1.5
F ⁻	0 - 1.5
SO ₄ ²⁻	0 - 1.5

with As₂O₃ + Sb₂O₃ + SnO₂ + CeO₂
+ Cl⁻ + F⁻ + SO₄²⁻ 0 - 1.5; and

(ii.) a glass minimized in ZrO₂, SnO₂, TiO₂, and CeO₂;
(c.) a glass in which arsenic oxide, antimony oxide, and
inherent impurities are minimized;

(d.) said glass comprises a float glass;

(e.) a density, ρ , of < 2.600 g/cm³;

(f.) all of (i.), (ii.), and (iii.):

(i.) said glass is resistant to thermal shock;

(ii.) said glass has a high transparency over a broad
spectral range in the visible and ultra violet ranges; and

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(iii.) glass is free of bubbles, knots, inclusions, streaks, and surface undulations; and

(g.) said glass comprises a glass substrate for a flat panel liquid-crystal display, such as, for a laptop computer, the flat panel liquid-display including a twisted nematic display, a supertwisted nematic display, an active matrix liquid-crystal display, a thin film transistor display, and a plasma addressed liquid-crystal display.

64-80. (canceled)